

SWP Weekly Water Quality Summary

October 21 to 28, 2009

Electrical Conductivity: Concentrations decreased at Harvey O. Banks Pumping Plant (HBP), Check 41, Barker Slough and Vallecitos, but increased at Devil Canyon from October 21 to 28, 2009. Concentrations ranged from 313 $\mu\text{S}/\text{cm}$ to 578 $\mu\text{S}/\text{cm}$ (188 mg/L to 347 mg/L), below the Article 19 Monthly Average Objective of 440 mg/L (733 $\mu\text{S}/\text{cm}$). As of October 28, the lowest concentration of 313 $\mu\text{S}/\text{cm}$ occurred at Barker Slough while the highest concentration of 578 $\mu\text{S}/\text{cm}$ occurred at Devil Canyon. EC concentrations at HBP decreased from 447 $\mu\text{S}/\text{cm}$ to 388 $\mu\text{S}/\text{cm}$ as of October 28, 2009.

Bromide: Concentrations exceeded the California Bay Delta Authority (CBDA) Objective of 0.05 mg/L at all locations. Concentrations ranged from 0.11 mg/L to 0.30 mg/L. As of October 28, Barker Slough had the lowest concentration of 0.11 mg/L, while the highest concentration of 0.30 mg/L occurred at Devil Canyon. Bromide concentrations are calculated values using linear regression equations using EC concentrations and are not as accurate as bromide concentrations from laboratory analysis.

Turbidity: From October 21 to 28, turbidity levels increased at all locations probably due to the recent rainfall and runoff events. Turbidity levels ranged from 1.3 NTU to 117 NTU during the week. As of October 28, 2009, the lowest level of 1.6 NTU occurred at Devil Canyon, while the highest level of 117 NTU occurred at HBP. As of October 28, the levels at HBP increased from 5.8 NTU to 117 NTU.

Dissolved Organic Carbon (DOC): Concentrations decreased from 2.2 mg/L to 1.7 mg/L at HBP, but increased from 2.4 mg/L to 2.7 mg/L at Check 13. Concentrations were 4.1 mg/L at Edmonston as of October 28, 2009.

Taste and Odor Compounds: MIB and geosmin data collected from October 26 to 28 ranged from ND to 12 ng/L at Clifton Court Inlet and Outlet, Del Valle Check 7, Check 41, Check 66, Lake Skinner and Silverwood Lake.

Ground water pump-ins to the California Aqueduct during October 21 to 28 totaled 14,391 AF. The break down of the total volume was:

- Arvin Edison Water Storage District = 3,608 AF
- Kern Water Bank Authority (who operate the Kern Water Bank Canal) = 6,467 AF
- Kern County Water Agency (who operate the Cross Valley Canal) = 4,316 AF
- Semi-tropic Water Storage District = 0 AF.

As of October 21, 2009, no data were available for Check 29 due to malfunctioning instruments.

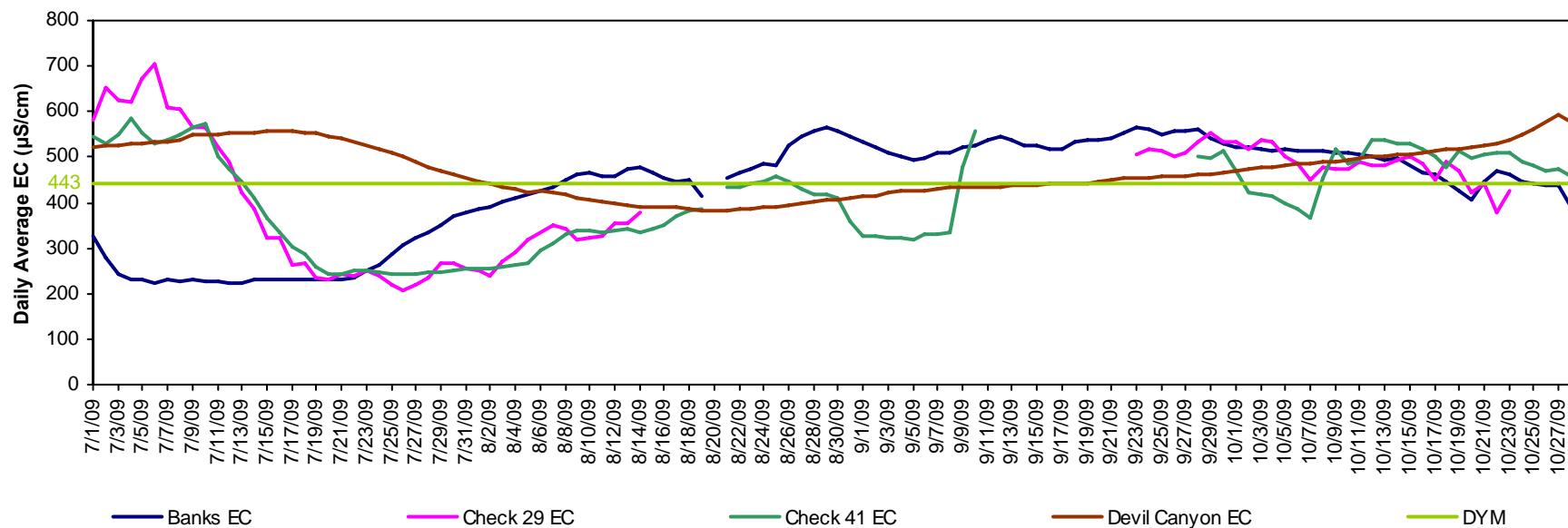
The intent of the weekly water quality (WQ) summary is to acquaint contractors, scientists and interested parties with the status of water quality in the State Water Project (SWP). Your comments, questions and suggestions are welcome and can be directed to Cindy Garcia @ 916-653-7213, or Austine Eke @ 916-653-7227. To view WQ data from the

automated stations along the SWP, visit:

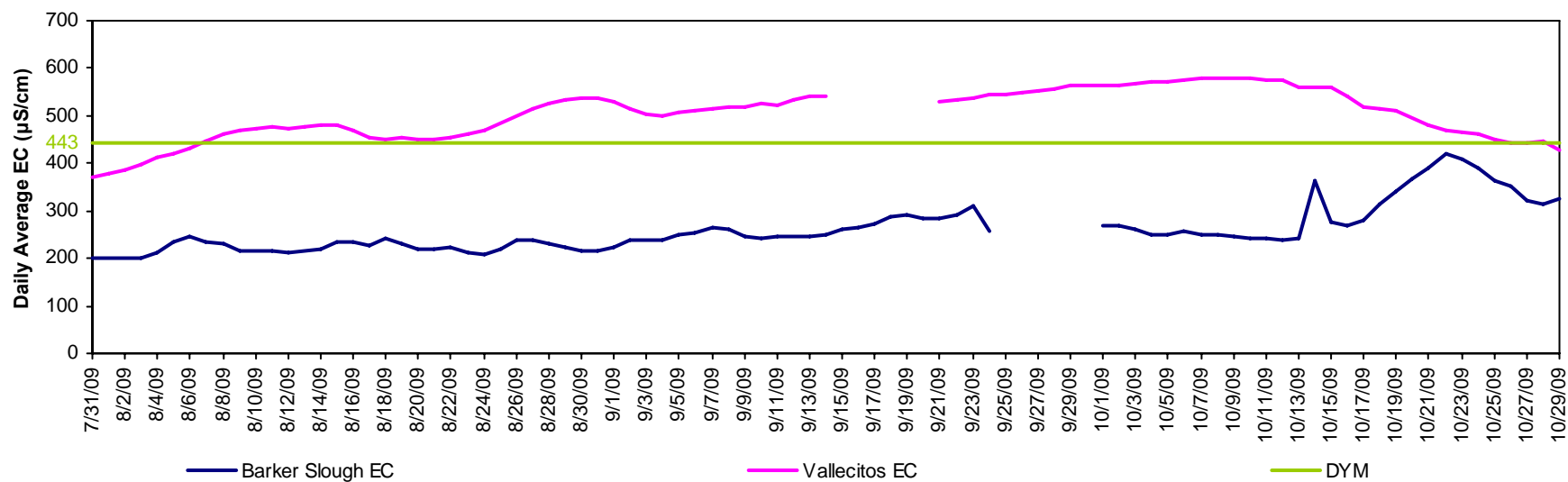
http://www.water.ca.gov/swp/waterquality/AutostationData/Autostation_map.cfm, and click on a station name on the map to link to the station's data on the California Data Exchange Center (CDEC) website.

To view the Edmondston's daily AF pumping data, visit: www.water.ca.gov. Click on the "State Water Project" tab, and click on the "Operations Control" link. Look under the "Project-Wide Operations" header for the "Dispatcher's Daily Water Report."

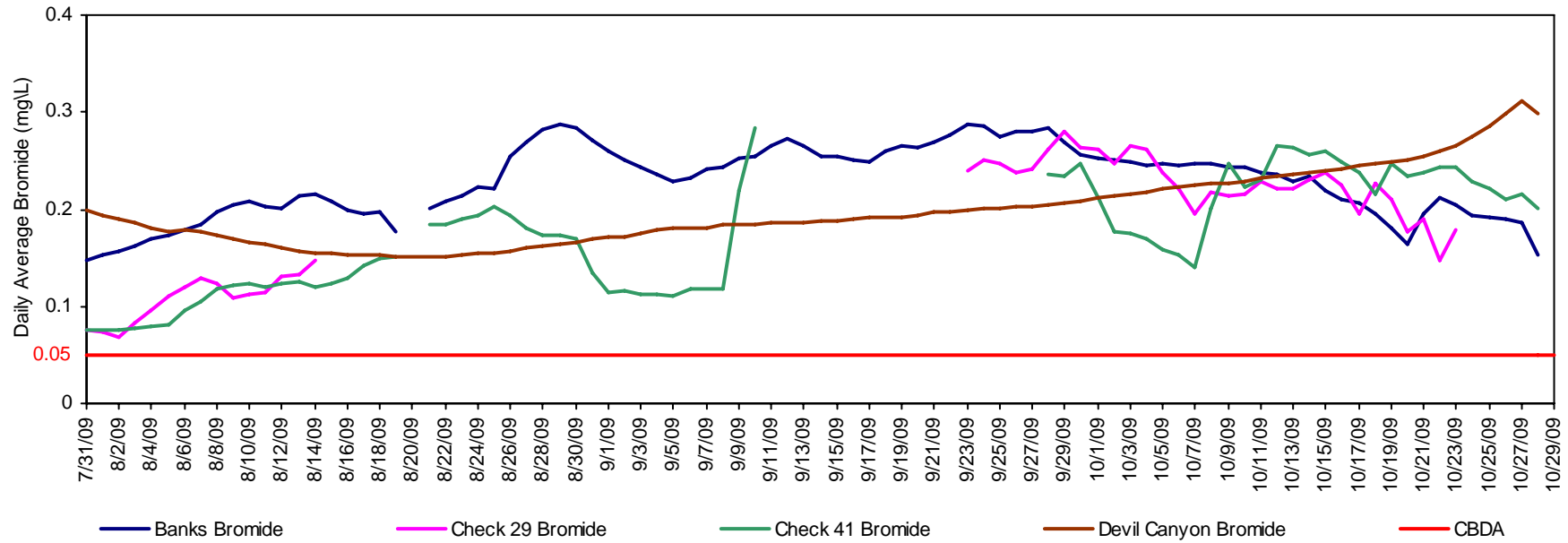
California Aqueduct - Electrical Conductivity



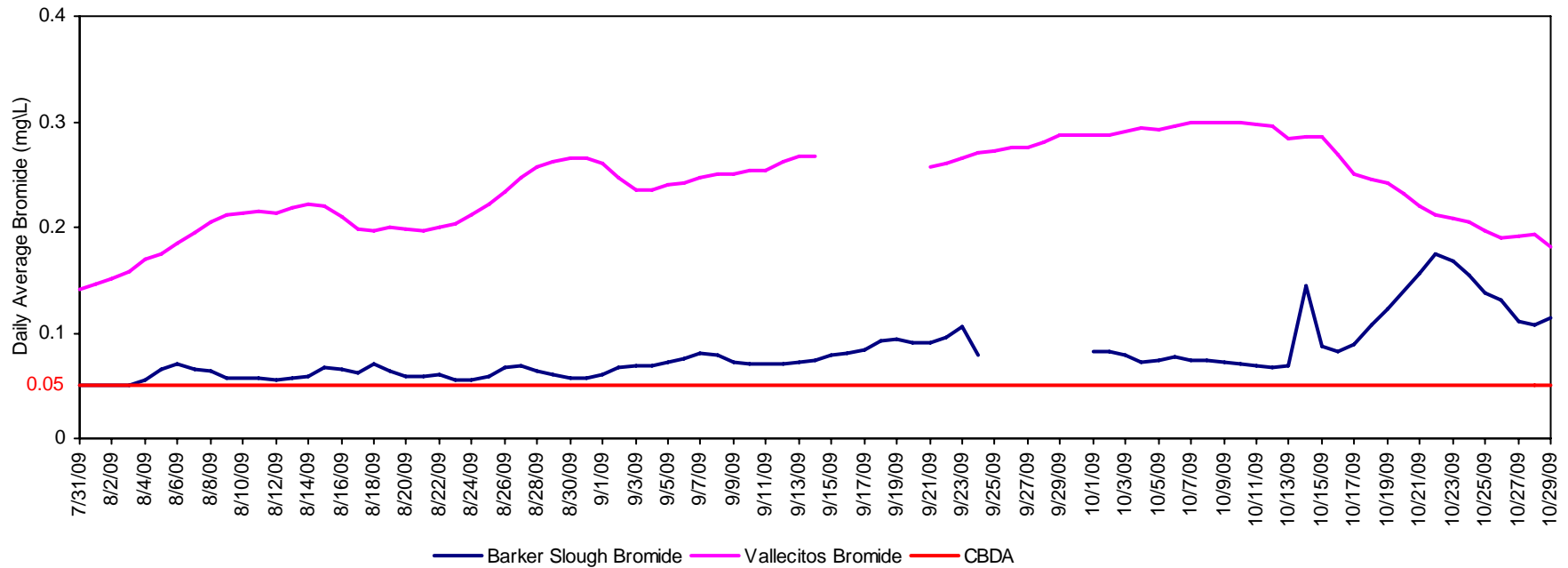
North and South Bay Aqueduct - Electrical Conductivity



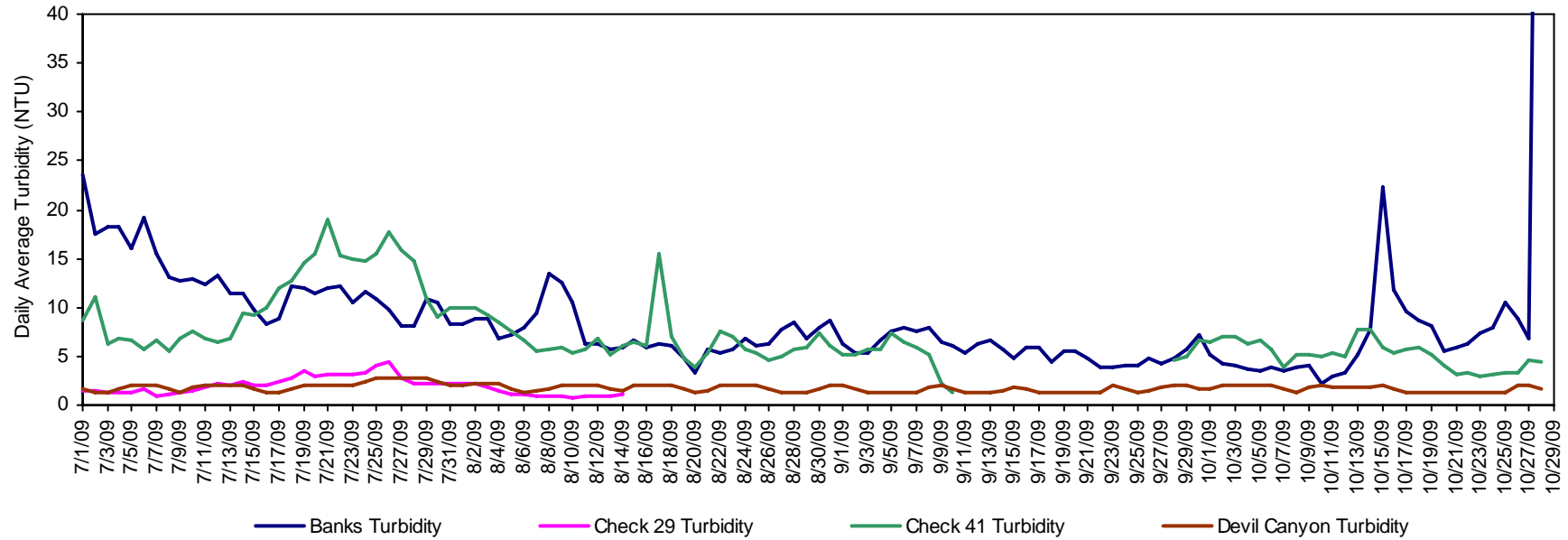
California Aqueduct - Calculated Bromide



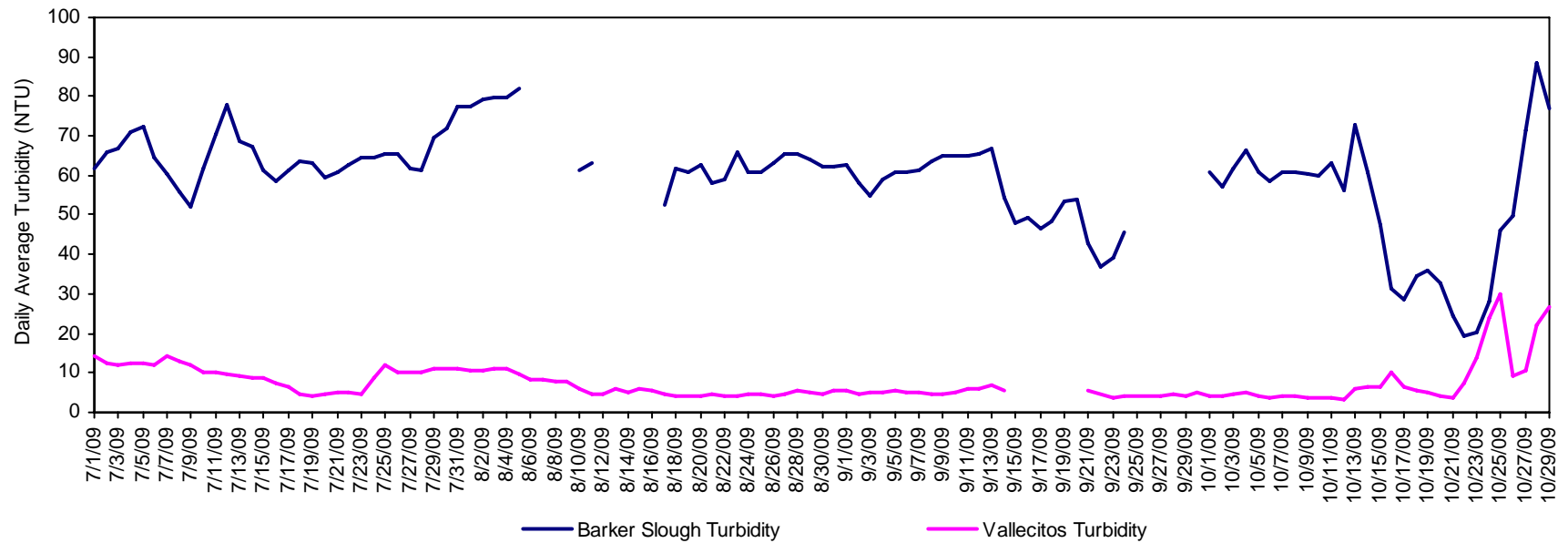
North and South Bay Aqueduct - Calculated Bromide



California Aqueduct - Turbidity



North and South Bay Aqueduct - Turbidity



California Aqueduct Calculated Dissolved Organic Carbon

